## Work Order ID 65987

Tuesday, February 01, 2011 7:10:27 AM

		IIIII	

Item ID:

D3391-023

Accept

-	-	-		

Setup Start



Revision ID:

Item Name:

Mid Tube Assembly

Start Date:

2/1/2011

Start Oty: 1.00

Required Date: 2/4/2011 Rea'd Otv: 1.00



Cust Item ID:

**Customer:** 

Reference:

Approvals:

Date://-OJ-/ Tooling:

SPC (Y/N):

Date:

Run

Start Stop

Stop



QC:

Operation

Set Up/

Tool ID

Tool # Plan

Accept **Qty** 

Reject

Insp.

Work Center ID

Description

**Run Hours** 

Code

Oty

Reject Number Stamp

**Draw Nbr** 

D3391

Skidtubes

Skidtubes

Sequence ID/

**Revision Nbr** 

Rev H

100

Skidtubes

Memo

0.00

0.00

1-Cut tube to finish length as per Dwg D3391

2-Identify as D3391-023

3-Drill pilot holes using DT8796 (Do not drill "B" holes) and drill only 1 fwd saddle hole on one side only as per Dwg D3391

4-Open saddles and GHW holes to Ø0.375" exept for fwd saddle hole of detail

5-Remove .030" from Fwd indexing Ridge as per Dwg D3391

6-Remove indexing ridge on Fwd & Aft end of skidtube as per Dwg D3391

7-Deburr

8-Drill #30 pilot holes using wearplate Jig DT8217 Identify Ø0.250" holes with paint marker,

9-Open wearplate holes of D3391-023 assembly detail section G-G to Ø0.250" (14 holes) as per Dwg D3391 and 2 holes in section Detail "J", do not open wearplate holes of section "J"

10-Open wearplate holes of D3391-023 assembly detail section H-H to Ø0.297" (20 holes) as per Dwg D3391

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W/O: WORK ORDER CHANGES											
DATE	STEP	PRO	CEDURE CHA	NGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
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DATE	STEP	Description of NC		Corrective Action Section			Verific	ation	Approval	Approval	
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#### Work Order ID 65987

Tuesday, February 01, 2011 7:10:27 AM

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Item		"

D3391-023

**Revision ID:** 

Item Name: Mid Tube Assembly

**Start Date:** Required Date: 2/4/2011

2/1/2011 Start Oty: 1.00

Req'd Qty: 1.00



Accept



Setup Start





**Cust Item ID:** 

**Customer:** 

Reference:

**Approvals:** 

QC:

**Process Plan:** 

Date:

Date:

Tooling:

SPC (Y/N):

Date: Date: Run

Start Stop



Sequence ID/

**Work Center ID** 

**Operation** Description

Set Up/ **Run Hours**  **Tool ID** 

Tool # Plan

Code

Accept Qty

Reject Qty

Reject Number

Insp. Stamp

11-Open .375" holes to .438" \*\*\*do not open fived saddle holes\*\*\*

12-Locate D3391-021 in D3391-023 at 9.00" (see view z-z)

13- Transfer drill one fwd saddle hole only to .188" dia, transfer drill all remaining fwd saddle holes using DT 8149 locating from previusly drill .188" dia hole, using t-pins and clicos to ensure perfect allingment, open up previusly tranfer drilled pilot holes in D3391-023/-021 to 0.438" dia. in D3391-021

14- Transfer drill 2 wearplate holes into D3391-021 using DT8217, locating from two previusly drilled holes, drill remaining wearplate holes into D3391-021.

15- Locating from two fwd wearplate holes drilol remaining 6 wearplte holes in D3391-021 using DT8937

16- Open 2 fwd wearplate holes in D3391-023 to .250" dia.

17- counterbore two aft wearplate holes in D3391-021 as per dwg

18- Open 12 wearplate holes in D3391-021 to 0.297" dia.

19-Deburr and blow out all chips from inside tube



Page 3

Item ID:

D3391-023

Accept

Setup Start

Stop



**Revision ID:** 

Item Name:

Required Date: 2/4/2011

Mid Tube Assembly

**Start Date:** 

2/1/2011

Tuesday, February 01, 2011 7:10:27 AM

Start Qty: 1.00

**Req'd Qty:** 1.00

**Cust Item ID:** 

**Customer:** 

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run Start

Date: \_\_\_\_\_

**SPC (Y/N):** 

Date:

Stop

Sequence ID/ **Work Center ID** 

110

Quality Control

Operation **Description** 

QC5- Inspect part completeness to step on W/O

Set Up/ **Run Hours** 

Tool ID

Tool # Plan Code

Accept Qty

Reject Qty

Reject Insp. Number Stamp

120

HandFinish

Hand Finishing

Chemical Conversion Coat per QSI005 4.1

Memo

0.00

Memo

0.00

130

Quality Control

QC3- Inspect Part Finish

Memo

0.00

0.00

BE 1402/08

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Tuesday, February 01, 2011 7:10:27 AM

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Item ID:

D3391-023

Accept

|--|

Setup Start



**Revision ID:** 

Item Name:

Mid Tube Assembly

**Start Date:** 

2/1/2011

Start Qty: 1.00

Req'd Qty: 1.00



**Cust Item ID:** 

**Customer:** 

Reference:

Approvals:

Required Date: 2/4/2011

Process Plan:

Operation

Skidtubes

**Description** 

Date:

**Tooling:** 

0.00

Date:

Run

Start

Stop

Stop



QC:

Date:

SPC (Y/N):

Set Up/

**Run Hours** 

Date:

Tool ID

Code

Tool # Plan

Accept Qty

Reject Qty

Reject Number

Insp. Stamp

140

Sequence ID/

Work Center ID

Skidtubes

Skidtubes

0.00 Memo

1-Open float bag holes as per dwg 2-C'sink float bag holes as per dwg

3- Prepare tube for welding

4-Bond web in place as per Dwg D3391 & QSI 015.

Adhere for 12 hours)

A/R Sikaflex exp:  $11 \sim 9 - 3$ 

-batch#: M116040

150

QC5- Inspect part completeness to step on W/O

0.00

OC.

**Ouality Control** 

Memo

0.00

Skidtubes

Skidtubes

Memo

0.00

0.00

Skidtubes

1-Weld crossbolt spacer as per dwg D3391 & QSI 004

2-grind weld flush

## The country of particular control of Work Order ID 65987

Tuesday, February 01, 2011 7:10:27 AM

Item	ID:

D3391-023

Accept



Setup Start

Stop

Stop



**Revision ID:** 

Item Name:

Required Date: 2/4/2011

Mid Tube Assembly

**Start Date:** 

2/1/2011

Start Qty: 1.00

Req'd Qty: 1.00



**Cust Item ID:** 

**Customer:** 

Tool ID

Reference:

Approvals:

**Process Plan:** 

Date:

Tooling:

Date:

Start Run

Qty



QC:

Date:

SPC (Y/N):

\_\_\_\_\_ Date:\_\_\_\_

Qty

Code

Tool # Plan

Reject Accept

Reject Number Stamp

Insp.

Sequence ID/ **Work Center ID** 

170

QC

Quality Control

Operation Description

QC10- Inspect visual per QSI004- ground welds

Set Up/ **Run Hours** 

Memo

180

Quality Control

QC5- Inspect part completeness to step on W/O

0.00

Sulvelio

185

HandFinish

Hand Finishing

Pressure Wash per QSI005 4.3

✓ Memo

Memo

0.00

0.00

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## Work Order ID 65987

Tuesday, February 01, 2011 7:10:27 AM

Item ID:

D3391-023

Accept

Setup Start

Stop

**Revision ID:** 

Item Name:

Mid Tube Assembly

**Start Date:** 

2/1/2011

QC:

Start Qty: 1.00

**Req'd Qty:** 1.00



Cust Item ID:

**Customer:** 

Tool ID

Reference:

Approvals:

Required Date: 2/4/2011

**Process Plan:** 

Date: Tooling:

Date:

SPC (Y/N):

Set Up/

0.00

0.00

**Run Hours** 

Date: Date:

Tool # Plan

Code

Run

Accept

Qty

Stop

Reject

Qty

Start

Insp.

Stamp

Sequence ID/ Work Center ID

190

Powdercoat

Powder Coating

Operation Description

White Gloss(Ref:4.3.5.1) per QSI005 4.3-Alum

200

Quality Control

QC3- Inspect Part Finish

Memo

0.00

0.00

Reject

Number

## Work Order ID 65987

Tuesday, February 01, 2011 7:10:27 AM

D3391-023



Item	ID:

Accept



Setup Start

Stop

Stop

Reject

Number



**Revision ID:** 

Item Name:

Required Date: 2/4/2011

Mid Tube Assembly

Start Date:

2/1/20.11

QC:

Start Qty: 1.00

**Operation** 

Skidtubes

**Description** 

Req'd Qty: 1.00



**Cust Item ID:** 

**Customer:** 

Tool ID

Reference:

Approvals:

**Process Plan:** 

Date:

**Tooling:** SPC (Y/N):

Set Up/

**Run Hours** 

Date:

Date:

Run Start

Reject

Qty

Accept

Qty



Insp.

Stamp

Sequence ID/ **Work Center ID** 

210

Skidtubes Skidtubes

Memo

0.00

0.00

1- insert D3391-021 into D3391-23

2- insert T-pins into first and third fwd saddle holes

Date:

3- ON FIRST SIDE ONLY drill out 2nd and forth fwd saddles holes to 0.500" as per DSI 9364

4- remove T-pins and locate DT9415 from first and third crossbolt hole using Tpins and clekos

5- ON 2ND SIDE ONLY ream out 2nd and forth saddle hole to 0.499". Remove DT9415

6- deburr, re-alodine and blow out chips

7- press fit D3591-1 spacers using DT9416 starting from 0.500" side

220

QC5- Inspect part completeness to step on W/O

0.00

Memo

0.00

Quality Control

Tool # Plan

Code

Work Order ID 65987  Tuesday, February 01, 2011 7:10:27 AM							* .	ж т		Page 8
Item ID: Revision ID: Item Name:	D3391-023 Mid Tube Ass	embly		Accept			Se	tup Star	80	
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Approvals:	Process Pla	n:	Date:		,	nte:	 Rı	un Star Stop		
Sequence ID/ Work Center 1 230 HandFinish Hand Finishing	ID	Operation Description HandFinishing Memo Install Insert	ts as per Dwg	Set Up/ Run Hours 0.00	Tool ID	Tool#	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
240 QC Quality Control	,	QC5- Inspect part compl	leteness to step on W/C	0.00 Sulve	Å1 [		(40)		 [/	·
250 Packaging		Identify as per dwg & St . Memo	ock Location:	0.00	ς	<del>-</del> .	ſΙ	hli	65/	<u> </u>

Memo

Packaging

Page 9

Tuesday, February 01, 2011 7:10:27 AM

Item ID:

D3391-023

**Revision ID:** 

Mid Tube Assembly Item Name:

2/1/2011

Start Qty: 1.00 Required Date: 2/4/2011 Req'd Qty: 1.00

Accept

**Cust Item ID:** 

**Customer:** 

Reference:

**Start Date:** 

Approvals:

Process Plan:

QC:

Operation

**Description** 

Date:

Date:

SPC (Y/N):

Tooling:

Set Up/

**Run Hours** 

Tool ID

Date:

Date:

Tool # Plan

Code

Reject Accept Qty Qty

Run

Setup Start

Stop

Start

Stop

Reject

Insp. Number Stamp

260

Sequence ID/

Work Center ID

Quality Control

Memo

QC21- Final Inspection - Work Order Release

0.00

0.00

11-02-16

## **Picklist Print**

Tuesday, February 01, 2011 7:10:24 AM

Work Order ID: 65987

Parent Item:

D3391-023

Parent Item Name: Mid Tube Assembly



Start Date: 2/1/2011 Start Qty: 1.00

Required Date: 2/4/2011

Required Qty: 1.00

**Comments:** 

IPP A: 105.10.20: | New Issue| |

KJ/EC

IPP BE 06.02.10 EECN773 dwg rev.D rev F dwg 07.03.20

EC

IPP D 07.03.28

EC

EC

re-format IPP E 07.10.31 ecn 1053P

EC

IPP Rev:F ECN 1056 07-11-13 DD

verified by: EC

IPP Rev:G 08-09-08 new process (ecn 08-510) DD verified by:EC

IPP Rev:H 08-09-10 revH as per dwg DD verified by:EC

IPP Rev: I 08-11-13 Removed steps per w/o, QC KJ verified by: ec IPP

Rev:J add in seq 140 expire date &b# sikaflex DD 10.02.17 verified by:EC

2500-1-100 Manufac	ctured No	100	Each	116.0000 1	1	BE	1/02/01

D3391-021

Fwd Tube Assembly D3389-1

·Web

1	Location	Loc	e Qty	Loc Code
[	G		116	
	37065		33	
	50251		83	
Manufactured No		100	Each	0.0000
Mr 11-02-16	•			

64877

11

No Manufactured

140

Each

3.0000

Location	Loc Qty	Loc Code
LG <b>365989</b>	3	
63343	1	

2

## **Dart Aerospace Ltd**

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## Picklist Print

Tuesday, February 01, 2011 7:10:24 AM

Work Order ID: 65987

Parent Item:

D3391-023

Parent Item Name: Mid Tube Assembly



Start Date: 2/1/2011

Required Date: 2/4/2011

Start Qty: 1.00

Required Qty: 1.00



Spacer

D3681-1

Location	<u>Lo</u>	c Qty
LG		51
56802		14
57656		12
63321		5
64620		20
	210	Each

160

Each

31.0000

51.0000

Bushing

No

Manufactured

Manufactured

Loc Qty Location ST072 31 47121 2 57350 29 230 Each

Loc Code 807.0000

Purchased ALS4-1032-130

Insert

<u>Location</u>	Loc Qty	Loc Code
PKG11	480	
114723	480	
ST281	192	
116049	192	
S1282"	96	·
110511	10	
115911	86	
ST381	39	
114654	39	

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## **Dart Aerospace Ltd**

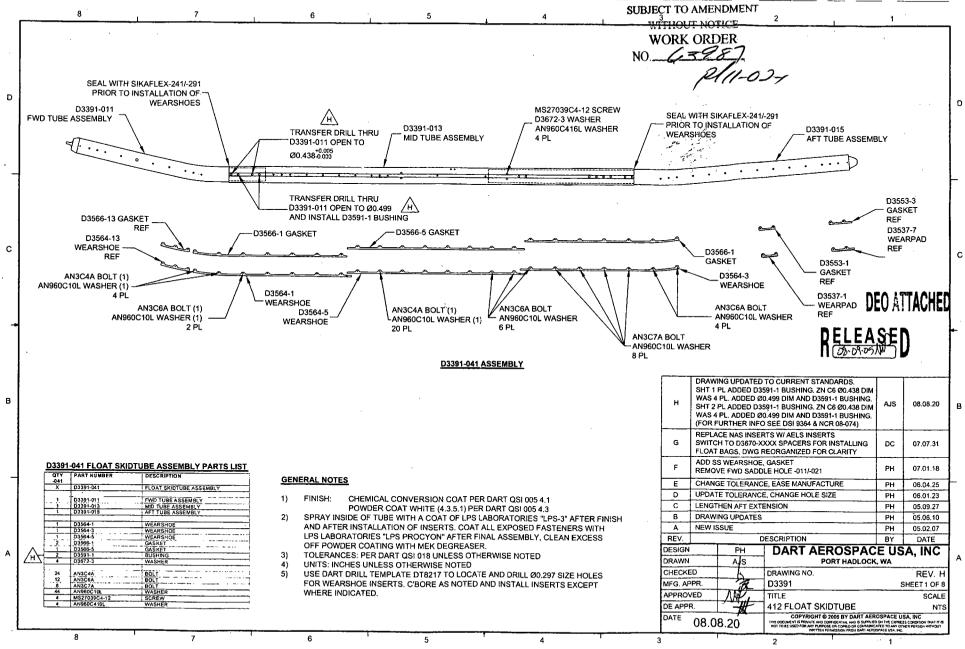
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11/02/11	230	Assemble with: AN3C-4A/M116075 (X12) bolts. NAS1149(0332R/M116025(X12) washers	H	ulozl u	X12 X12				

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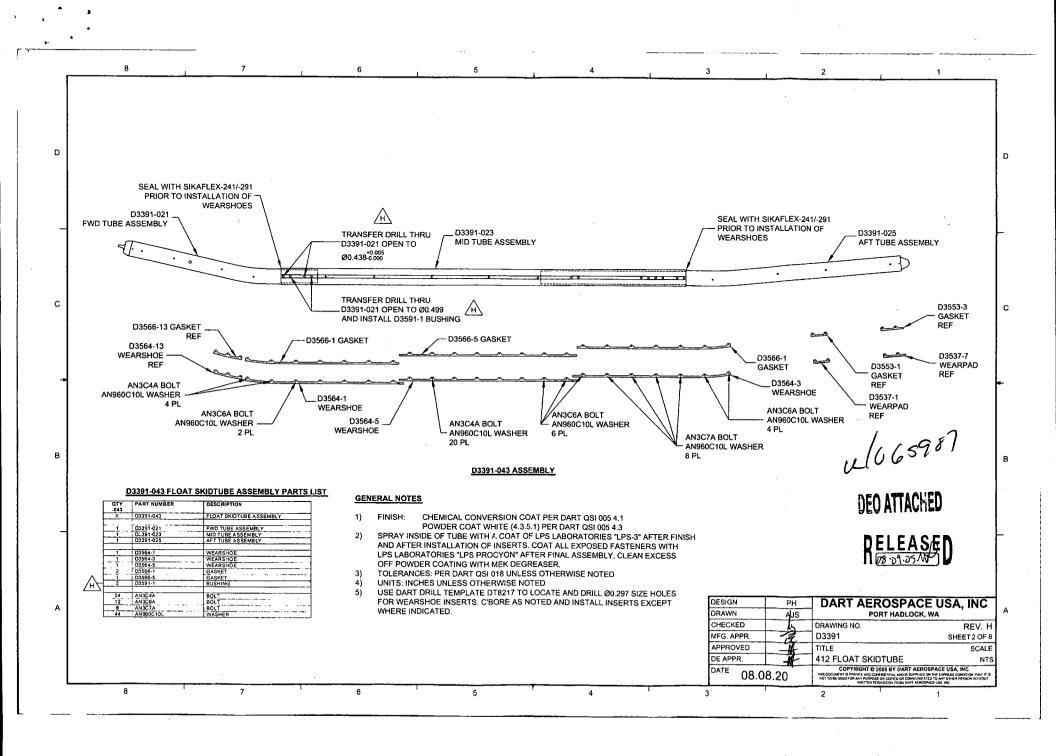
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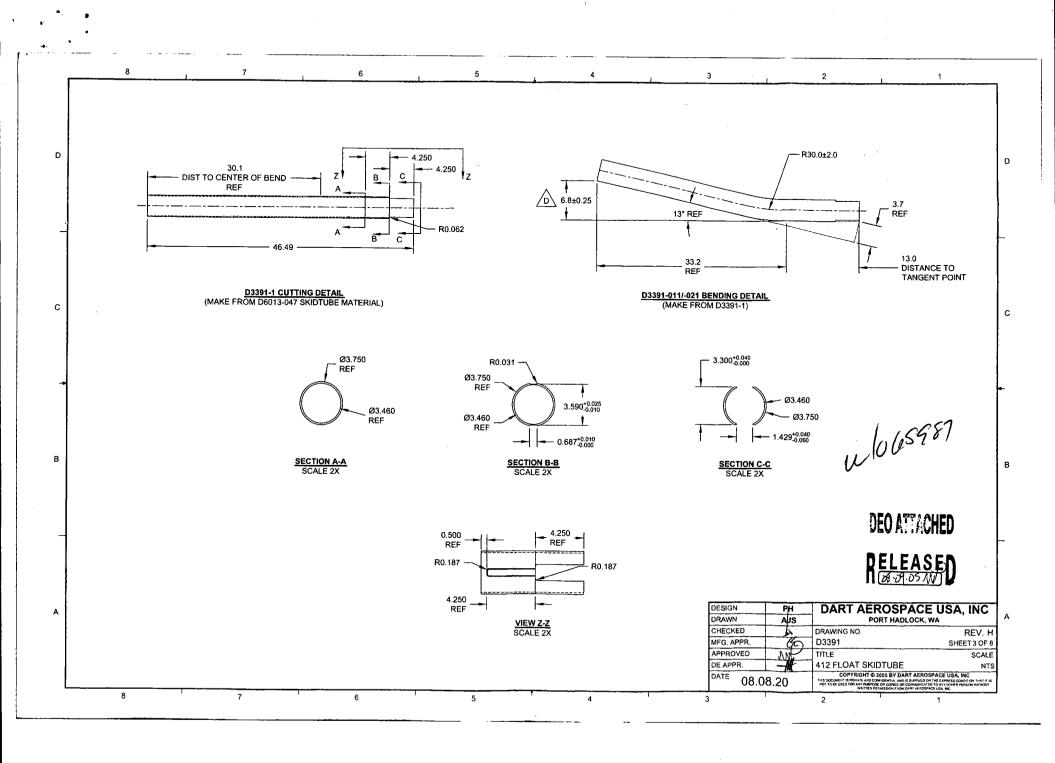
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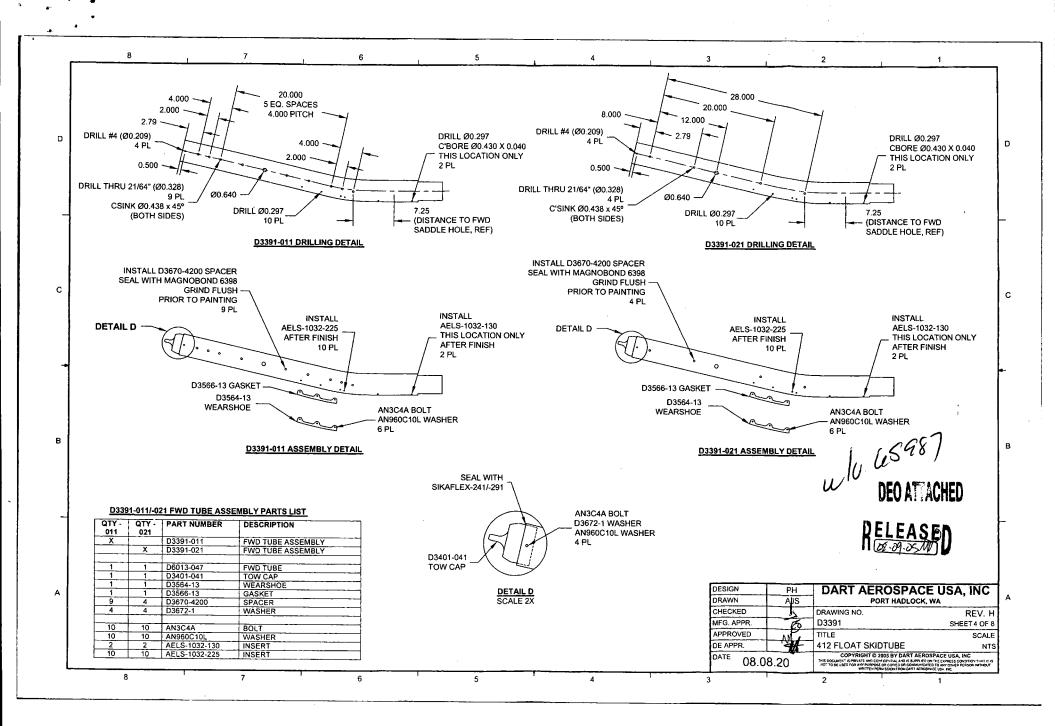
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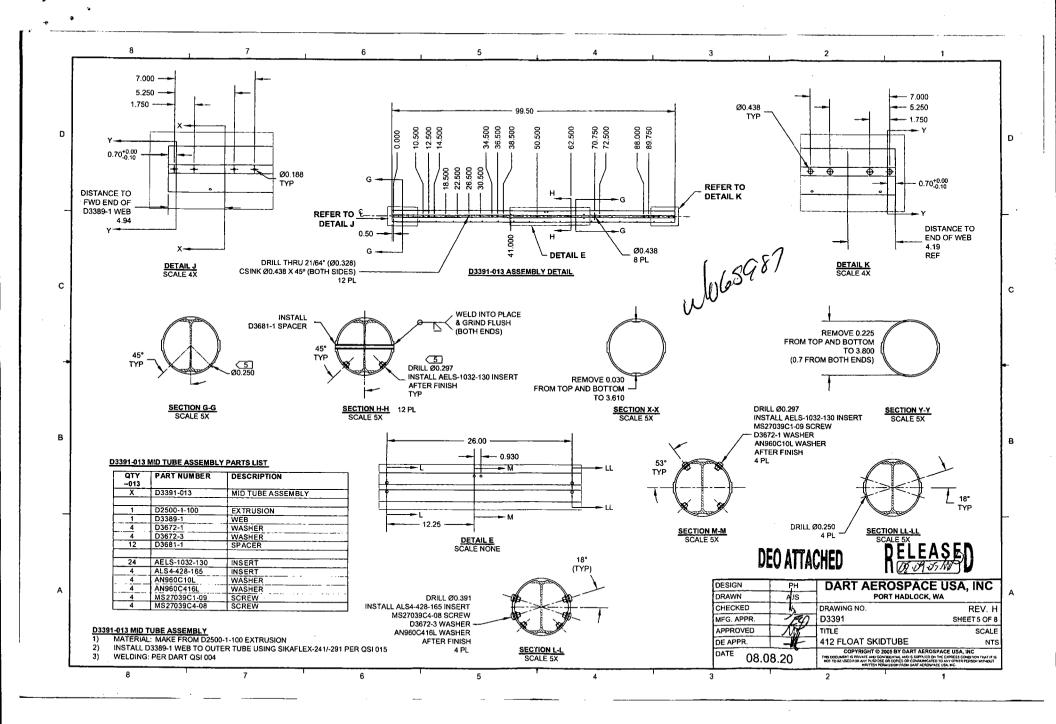
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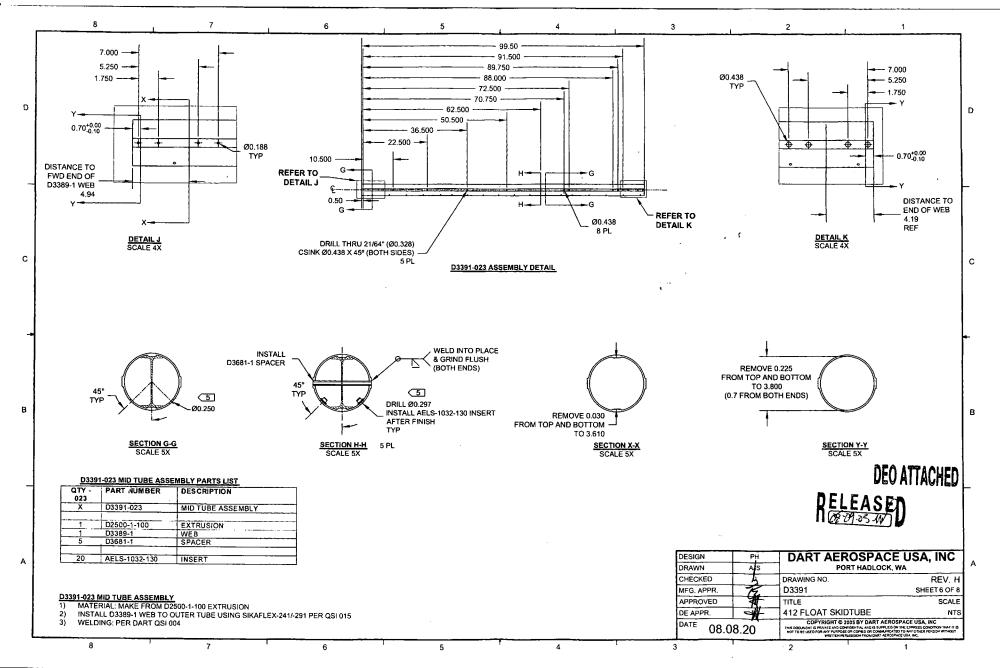


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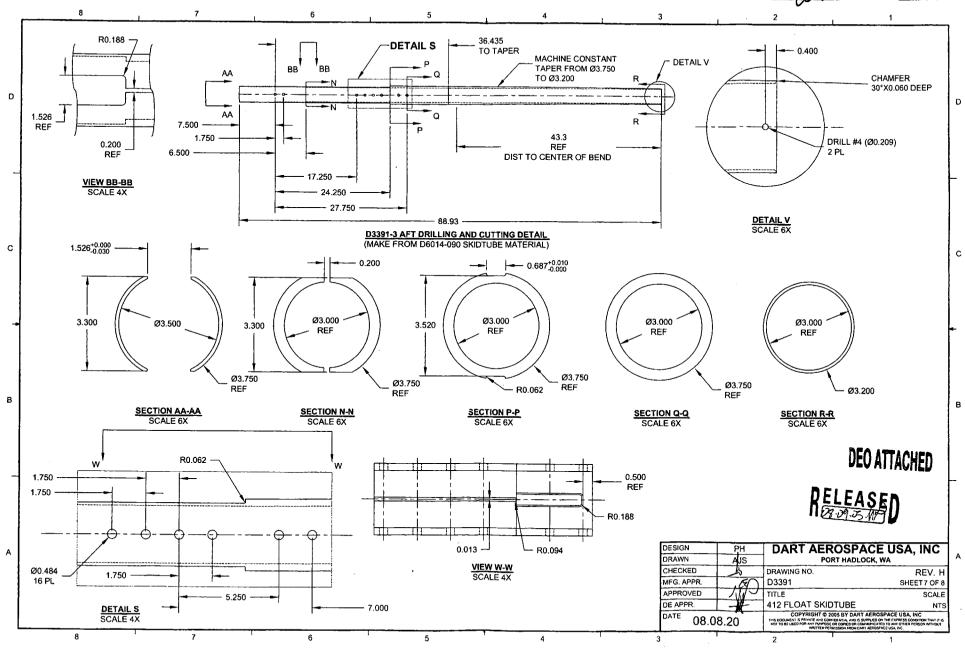
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6 5 R30.0±2.0 36.000 9 EQ. SPACES - 4 000 44 000 4.000 PITCH - 2.000 - 2.69 R30.0±2.0 4.2±0.25 4.2±0.25 DRILL THRU 21/64" (Ø0.328) DRILL THRU 21/64" (Ø0.328) 7.00 14 PL 4 PL REF REF DRILL Ø0.297 DRILL Ø0.297 CSINK Ø0.438 X 45° CSINK Ø0.438 X 45° DISTANCE BETWEEN HOLE AND 26 PL 26 PL (BOTH SIDES) DISTANCE BETWEEN HOLE AND TANGENT POINT (BOTH SIDES) TANGENT POINT D3391-015 BENDING AND DRILLING DETAIL (SEE CBORE DETAIL BELOW) D3391-025 BENDING AND DRILLING DETAIL (SEE CBORE DETAIL BELOW) INSTALL D3670-4200 SPACER INSTALL D3670-4200 SPACER SEAL WITH MAGNOBOND 6398 SEAL WITH MAGNOBOND 6398 GRIND FLUSH GRIND FLUSH PRIOR TO PAINTING PRIOR TO PAINTING -DETAIL T 14 PL 4 PL 3.750 - DETAIL T D3553-3 D3553-3 GASKET GASKET С CB4 (NO CBORE) (NO CBORE) D3553-1 D3553-1 5 CB1 GASKET 5 CB1 GASKET D3537-1 D3537-1 D3537-7 \_D3537-7 WEARPAD WEARPAD WEARPAD WEARPAD D3391-015 ASSEMBLY AND CHORE DETAIL (SEE TABLE) AN3C5A BOLT AN3C5A BOLT AN3C4A BOLT AN960C10L WASHER AN960C10L WASHER AN3C4A BOLT AN960C10L WASHER AN960C10L WASHER D3391-015/-025 AFT TUBE ASSEMBLY PARTS LIST D3391-025 ASSEMBLY AND CBORE DETAIL QTY - QTY - PART NUMBER DESCRIPTION 025 AFT TUBE ASSEMBLY AFT TUBE ASSEMBLY D2646 AFT CAP -D3391-015 D3391-025 SEAL WITH SIKAFLEX-241/-291 AFT TUBE AFT CAP WEARPAD В D6014-090 1 D2646 1 D3537-1 DRILL Ø0.391 CBORE Ø0.516 X 0.040 DEEP D3537-7 D3553-1 WEARPAD INSTALL ALS4-428-165 INSERT GASKET GASKET D3670-4200 SPACER D3672-1 WASHER AN3C4A BOLT DEO ATTACHED D3672-1 WASHER 14 AELS-1032-130 AN960C10L WASHER INSERT 12 12 AELS-1032-225 INSERT SECTION U-U DETAIL T SCALE 4X INSERT AN3C4A AN3C5A BOLT AN960C10L WASHER C'BORE HOLES MARKED CB1-CB4 AS FOLLOWS AND INSTALL AELS-1032-XXX AFTER FINISH AS NOTED DESIGN DART AEROSPACE USA, INC CBORE DRAWN PORT HADLOCK, WA MARKED | D3391-015 D3391-025 CHECKED DRAWING NO. REV. H CR1 Ø0.430 X 0.170 AELS-1032-225 MFG. APPR D3391 SHEET 8 OF 8 Ø0.430 X 0.170 | AELS-1032-130 Ø0.430 X 0.040 AELS-1032-130 APPROVED TITLE SCALE 412 FLOAT SKIDTUBE DE APPR. NTS COPYRIGHT @ 2005 BY DART AEROSPACE USA, INC. DATE 08.08.20

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W/O:			WO	RK ORDER CHANGE	ES			•
DATE	STEP	PROCEDURE CHANGE				Date Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No	:	PAR #:	Fault Categ	jory:	NCR: Yes	No DQA:	Date:	<del></del>
	Reso	olution:	Disposition	:	QA: N/C Clo	osed:	Date: _	
NCR:			WORK ORDE	R NON-CONFORMA	NCE (NCR	)		
		Description of NC		Corrective Action Section		Verification	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector
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TRAWING NO	O. TITLE		REV. H D	ART AEROSPACE USA, I	NC D.E.O. NO.	SHEET NO.	SCALE
D3391	412 FLOAT	SKIDTUBE	1	<b>ENGINEERING ORDER</b>	D3391-H-1	SHEET 1 OF,1	NTS
DRAWN	A)	CHECKED	4	MFG. APPR.	APPROVED MAD	DE APPR.	
DATE	09.09.23	DATE 04.	04.24	DATE 09/09/25	DATE 09/09/30	DATE 09 09 30	-

#### **PURPOSE:**

LPS-3 IS NO LONGER USED DURING ASSEMBLY OF D3391-041/-043 SKIDTUBES.

#### **CHANGE:**

AMEND NOTE 2 OF D3391-041/-043 SKIDTUBE ASSEMBLIES (ZN A6-1, A6-2) AS FOLLOWS:

2) SPRAY INSIDE OF TUBE WITH A COAT OF LPS LABORATORIES "LPS-3" AFTER FINISH-AND AFTER INSTALLATION OF INSERTS. COAT ALL EXPOSED FASTENERS WITH LPS LABORATORIES "LPS PROCYON" AFTER FINAL ASSEMBLY, CLEAN EXCESS OFF POWDER COATING WITH MEK DEGREASER.

DELEASED 2010 -02- 0 2

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W/O:		WORK ORDER CHANGES								
DATE	STEP	PRO	OCEDURE CHANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
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				:						
				·		-				
Part No: PAR #:			Fault Category: I		NCR: Yes	NCR: Yes No DQA: Date:				
Resolution:			Disposition:		QA: N/C C	A: N/C Closed:			Date:	
NCR:			WORK ORDE	R NON-CONFORMA	NCE (NC	R)				
DATE	STEP	Description of NC Section A	Corrective Action Section			Verification		n Approval	Approval	
			Initial Chief Eng	Action Description Chief Eng	Sign Date	& Sect	Section C	Chief Eng	QC Inspector	
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NO. 244\_

# AWS D17.1.2001 QUALIFICATION TEST RECORD

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Name: Darklar Elliott
Job number: <u>65328</u>
Part number: <u>\$ 339/ - 623</u>
Description: mid tube
Welding Process: Tig[\(\beta\) Mig[],
Base materiel: alleeneeum
Current: AC[ ] DC[ ]

# TEST REQUIREMENTS AND RESULTS

Visual: Penetration:	pass[ ] fail[ ] pass[ ] fail[ ]
<u>UNACCEPTABLE</u>	
Cracks: Undercut: Pin holes: Overlap (cold lap) Porosity (surface): Coloration:	pass[] fail[] pass[] fail[] pass[] fail[] pass[] fail[] pass[] fail[] pass[] fail[]
Qualifier Lat Airms Welder Braday West	Date of Test Coupon // 0/ 18  Date of Test Coupon // 0/-18

The above named individual is qualified in accordance with AWS D17.1.2001 to weld